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PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

GROZNY PETROLEUM REFINERY

GROZNY, USSR

IMAGERY
ANALYSIS
DIVISION

GROUP 1
Excluded from automatic
downgrading and declassification

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CIA/PIR 65017

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CIA IMAGERY ANALYSIS DIVISION

GROZNY PETROLEUM REFINERY
GROZNY, USSR

1. The Grozny Petroleum Refinery is located one nautical mile southwest of the center of the city of Grozny, USSR and two nautical miles northeast of the Novo-Grozny Petroleum Refinery (Figures 2 and 6). Approximate geographic coordinates for the center of the Grozny Petroleum Refinery are 43 18N - 45 39E and its orientation is northeast/southwest.

The refinery is irregular in shape with maximum dimensions of three miles by two miles and it covers an area of approximately two and a half square miles. It is served by road, rail, and probably by pipeline.

Photography over the refinery reveals that it is a major refinery with at least fifteen distillation units, five cracking units, additional refining and processing facilities, and considerable POL tank storage. A more detailed discussion of facilities present at the refinery is given in part 2, section a.

Examination of all available photographic coverage from [] indicates that the refinery was active during this period. Smoke can be seen coming from a number of refining units as well as steam from the cooling towers; in addition, a number of units and buildings producing or using heat can be seen on photography with snow cover.

The photographic coverage also reveals that a major expansion of the refinery has been underway for the past three or four years; two large areas are under construction as well as a buried pipeline linking these new areas with the main refining area. In addition, minor changes and small additions to previously existing facilities have occurred. Details concerning this construction activity and changes are discussed in part 2, section b.

2. The limits of the Grozny Petroleum Refinery and the various sections within the refinery are shown on Figure 5 of this report.

a. The annotations on Figure 5 correspond to the following discussion of facilities present at the refinery.

- (1) Intermediate and/or final product storage area, including a number of warehouse/maintenance type buildings.
- (2) Probable administration area.
- (3) Possible natural gas plant with several small, possible gas fractionating units, POL tanks, blimp tanks, and a possible flare tower.

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- (4) Distillation area with a two column unit and associated facilities, several processing buildings, a number of warehouse/maintenance type buildings, and POL tanks. A rail spur serves the east side of this area.
- (5) Large POL tank storage area with a number of warehouse/maintenance type buildings. A small pipe furnace, possible pump house, and associated laydown tanks are situated near the center of this area. In addition, a tankcar loading and unloading facility is located in the northern corner of the area.
- (6) Distillation area with two adjacent, single column units, a two column unit, intermediate and/or final product storage, and a number of warehouse/maintenance type buildings. A large tankcar loading and unloading facility consisting of several rail spurs is located along the south side of the area.
- (7) Probable processing and packaging area with several heat processing buildings, a number of warehouse/maintenance type buildings, and POL tank storage. The northern portion of this area is open space except for two small, single column distillation units.
- (8) Distillation area with two adjacent, single column units and associated facilities, including probable oil treating facilities. A possible processing building and a number of warehouse/maintenance type buildings are located in the northwest corner of the area. A small suspect distillation unit with associated intermediate and/or final product storage, including blimp tanks, is located in the eastern corner of the area.
- (9) Tank farms.
- (10) Distillation area with one double column unit, two single column units, POL tanks, and a probable boilerhouse.
- (11) Heat and power plant with associated facilities.
- (12) Warehousing/maintenance area.
- (13) Coke oven plant with two coke oven batteries, a probable asphalt still battery, POL tanks, and open materiel storage.
- (14) Probable lube oil area with dewaxing and clay treating facilities. The area also contains a number of processing and warehouse/maintenance type buildings, as well as intermediate and/or final product storage.
- (15) Cracking and distillation area with two cracking units, two single column distillation units, two possible distillation units, and POL tank storage.

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- (16) Probable pipeline station.
- (17) Tankcar loading and unloading area and associated POL tank storage.
- (18) Probable contact coking unit.
- (19) Cracking and distillation area with three cracking units, two distillation units, and associated POL tank storage. From north to south, the units are aligned as follows: a several column distillation unit, a cracking unit, a several column distillation unit, and two cracking units.
- (20) Probable polymerization and vapor recovery area with associated blimp tanks; a probable vapor recovery unit is situated between two polymerization units.
- (21) Water treating facilities.
- (22) Buried pipeline under construction; a broken line shows the extent of construction as of [] while a dash-dotted line shows additional construction up to []
- (23) Unidentified processing area, possibly for lube oil refining and processing, with a distillation unit in the western portion of the area and an unidentified refining unit located along the southern edge. The area also contains a number of processing and warehouse/maintenance type buildings, several administration buildings, a boilerhouse near the northern edge of the area, and POL tank storage. Additional construction in the northern portion of the area appears to be currently in progress (section b, number 5).
- (24) Probable processing area in a middle stage of construction and consisting of a number of processing buildings, cooling towers, POL tanks, and blimp tanks.
- (25) Suspect refining area in an early stage of construction and consisting of cooling towers, POL tank storage, and a number of probable processing or pump house/control buildings, complete or under construction. The foundations for several suspect refining units are currently under construction.

Facilities adjacent to but not part of the refinery have been annotated on Figure 5 by the following letters:

- (a) Clay products plant
- (b) Petrochemical plant probably producing phenol, synthetic alcohol, and possibly polyethylene
- (c) Heat and power plant
- (d) Possible organic solvents plant

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b. Construction activity and changes at the refinery from [redacted] include the following (annotation numbers refer to Figure 5):

- (1) Several new POL tanks have been constructed in Annotation 5 since [redacted]
- (2) Construction of a possible processing building in the northern half of Annotation 7 was begun prior to [redacted]
- (3) An addition to an existing processing building along the western side of Annotation 14 was constructed between [redacted]
- (4) Construction of the buried pipeline (Annotation 22) connecting Annotation 24 with the main refining area was begun after [redacted]. A major portion of the pipeline construction was completed by [redacted]; on the most recent coverage [redacted] the eastern terminus of the pipeline is near the tankcar loading and unloading facility in Annotation 6.
- (5) A number of POL tanks have been constructed in Annotation 23 since [redacted] in addition, earth scarring in the northern section of the area indicates that additional construction may take place.
- (6) Construction of the facilities in Annotation 24 began prior to [redacted] with completion of most of the POL tanks and cooling towers by [redacted] and probable completion of several of the processing buildings by [redacted]; additional construction is currently in progress [redacted].
- (7) Construction of the suspect refining area (Annotation 25) began after [redacted]

3. All measurements have been made by the CIA/IAD/IB project analyst. The should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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REFERENCES



MAPS OR CHARTS

General Locator Map, USSR - 29656 1-61 (UNCLASSIFIED)
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REQUIREMENT

CIA. C-RR5-82,474

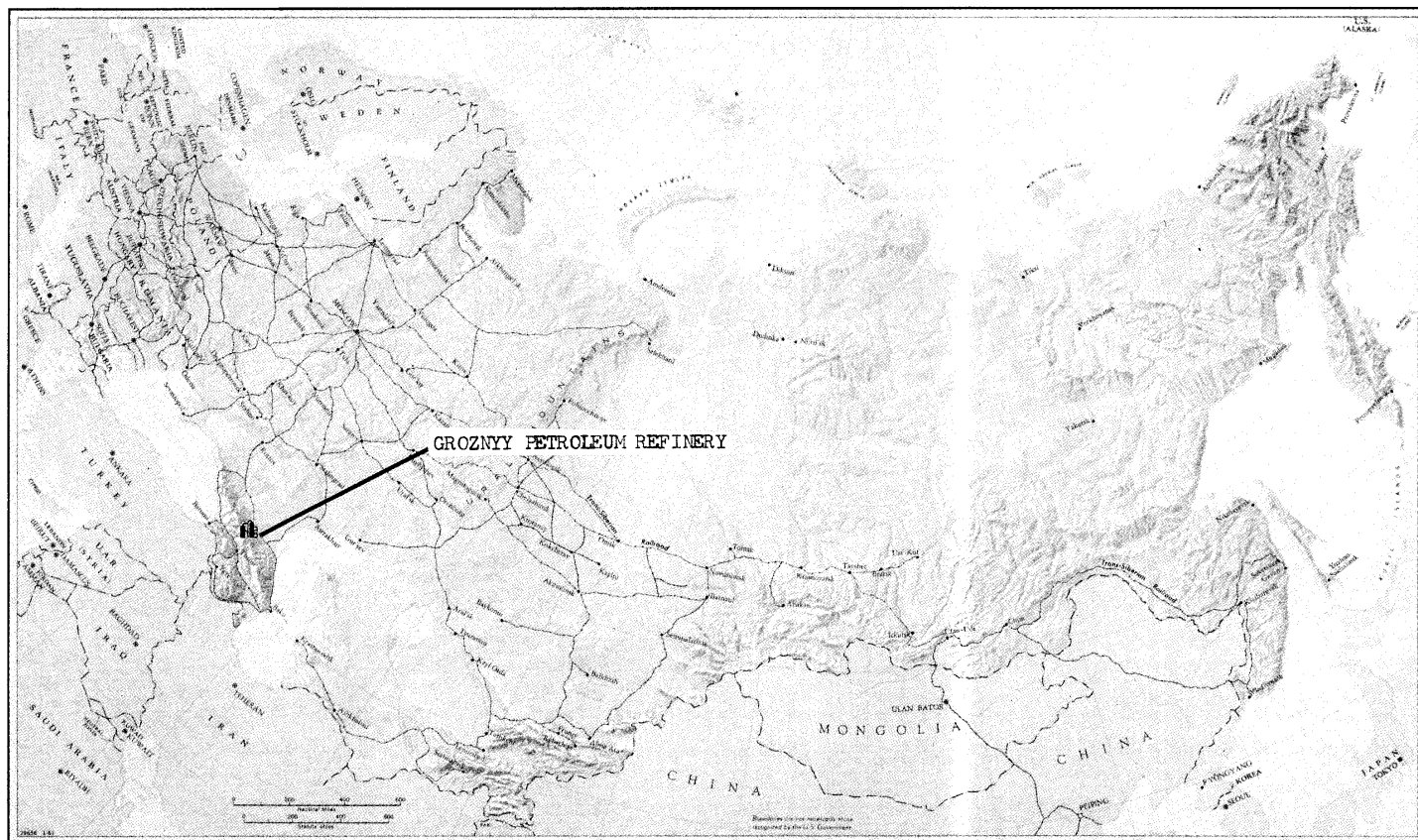
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FIGURE 1



PREPARED BY - CHEMICAL AND SCIENTIFIC SECTION
INDUSTRIAL BRANCH, IAD

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FIGURE 3

GROZNY PETROLEUM REFINERY
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43 18N - 45 39E

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FIGURE 4

GROZNY PETROLEUM REFINERY
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FIGURE 5



GROZNY PETROLEUM REFINERY
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FIGURE 6

GROZNY PETROLEUM REFINERY

NOVO-GROZNY PETROLEUM REFINERY

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